ABSTRACT

A pervasive computing network is disclosed including a group of first access controllers connected together on a first local area network, with each of the first access controllers including a radio frequency transceiver constructed to transmit and receive radio frequency signals within a range less than about 100 meters and wherein at least two of the ranges of the first access controllers overlap one another and the first access controllers are constructed to communicate with a consumer touchpoint device. The pervasive computing network further includes a group of second access controllers connected together on a second local area network, each of the second access controllers including a radio frequency transceiver constructed to transmit and receive radio frequency signals within a range less than about 100 meters, with at least two of the ranges of the second access controllers overlapping one another and the second access controllers being constructed to communicate with the consumer touchpoint device. The pervasive computing device is further provided with both a first communication line connecting the first group of access controllers to a wide area network; a second communication line connecting the

second group of access controllers to the wide area network; and a knowledge center connected to the wide area network in communication with the group of first access controllers and the group of second access controllers, the knowledge center being configured to communicate with the consumer touchpoint device by pushing unrequested data to the consumer touchpoint device when the consumer touchpoint device is within one of the ranges of the group of first access controllers and the group of second access controllers.